RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10 500, 175 A

Source: PCT

Date Processed by STIC: 1-26-05

ENTERED

PCT

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RAW SEQUENCE LISTING              DATE: 01/26/2005
PATENT APPLICATION:  US/10/500,175A      TIME: 12:53:46

        Input Set : A:\sequence listing - 61536 (46342).txt
        Output Set: N:\CRF4\01262005\J500175A.raw

 3 <110> APPLICANT: Hirokazu Matsumoto
 4        Jiro Noguchi
 5        Mioko Harada
 6        Masaaki Mori
 8 <120> TITLE OF INVENTION: Body weight gain inhibitor
10 <130> FILE REFERENCE: 61536 (46342)
12 <140> CURRENT APPLICATION NUMBER: 10/500,175A
13 <141> CURRENT FILING DATE: 2004-06-25
15 <150> PRIOR APPLICATION NUMBER: PCT/JP01/13781
16 <151> PRIOR FILING DATE: 2002-12-27
18 <150> PRIOR APPLICATION NUMBER: JP2001-403260
19 <151> PRIOR FILING DATE: 2001-12-28
21 <150> PRIOR APPLICATION NUMBER: JP2002-93096
22 <151> PRIOR FILING DATE: 2002-03-28
24 <160> NUMBER OF SEQ ID NOS: 150
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 32
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Primer
34 <400> SEQUENCE: 1
35 atcgattaca atgcaggccg ctgggcaccc ag   32
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 32
39 <212> TYPE: DNA
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: Primer
45 <400> SEQUENCE: 2
46 actagtgccc ttcagcaccg caatatgctg cg   32
48 <210> SEQ ID NO: 3
49 <211> LENGTH: 1023
50 <212> TYPE: DNA
51 <213> ORGANISM: Homo sapiens
53 <400> SEQUENCE: 3
54 atcgattaca atgcaggccg ctgggcaccc agagcccctt gacagcaggg gctccttctc   60
55 cctccccacg atgggtgcca acgtctctca ggacaatggc actggccaca atgccacctt  120
56 ctccgagcca ctgccgttcc tctatgtgct cctgcccgcc gtgtactccg ggatctgtgc  180
57 tgtggggctg actggcaaca cggccgtcat ccttgtaatc ctaagggcgc ccaagatgaa  240
58 gacggtgacc aacgtgttca tcctgaacct ggccgtcgcc gacgggctct tcacgctggt  300
59 actgcccgtc aacatcgcgg agcacctgct gcagtactgg cccttcgggg agctgctctg  360
60 caagctggtg ctggccgtcg accactacaa catcttctcc agcatctact tcctagccgt  420
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(p5.6)

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61 gatgagcgtg gaccgatacc tggtggtgct ggccaccgtg aggtcccgcc acatgccctg   480
62 gcgcacctac cgggggggcga aggtcgccag cctgtgtgtc tggctgggcg tcacggtcct   540
63 ggttctgccc ttcttctctt tcgctggcgt ctacagcaac gagctgcagg tcccaagctg   600
64 tgggctgagc ttcccgtggc ccgagcaggt ctggttcaag gccagccgtg tctacacgtt   660
65 ggtcctgggc ttcgtgctgc ccgtgtgcac catctgtgtg ctctacacag acctcctgcg   720
66 caggctgcgg gccgtgcggc tccgctctgg agccaaggct ctaggcaagg ccaggcggaa   780
67 ggtgaccgtc ctggtcctcg tcgtgctggc cgtgtgcctc ctctgctgga cgcccttcca   840
68 cctggcctct gtcgtggccc tgaccacgga cctgccccag accccactgg tcatcagtat   900
69 gtcctacgtc atcaccagcc tcagctacgc caactcgtgc ctgaacccct cctctacgc    960
70 ctttctagat gacaacttcc ggaagaactt ccgcagcata ttgcggtgct gaagggcact  1020
71 agt                                                                1023
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 333
75 <212> TYPE: PRT
76 <213> ORGANISM: Homo sapiens
78 <400> SEQUENCE: 4
79 Met Gln Ala Ala Gly His Pro Glu Pro Leu Asp Ser Arg Gly Ser Phe
80 1               5                   10                  15
81 Ser Leu Pro Thr Met Gly Ala Asn Val Ser Gln Asp Asn Gly Thr Gly
82              20                  25                  30
83 His Asn Ala Thr Phe Ser Glu Pro Leu Pro Phe Leu Tyr Val Leu Leu
84          35                  40                  45
85 Pro Ala Val Tyr Ser Gly Ile Cys Ala Val Gly Leu Thr Gly Asn Thr
86      50                  55                  60
87 Ala Val Ile Leu Val Ile Leu Arg Ala Pro Lys Met Lys Thr Val Thr
88 65                  70                  75                  80
89 Asn Val Phe Ile Leu Asn Leu Ala Val Ala Asp Gly Leu Phe Thr Leu
90                  85                  90                  95
91 Val Leu Pro Val Asn Ile Ala Glu His Leu Leu Gln Tyr Trp Pro Phe
92              100                 105                 110
93 Gly Glu Leu Leu Cys Lys Leu Val Leu Ala Val Asp His Tyr Asn Ile
94          115                 120                 125
95 Phe Ser Ser Ile Tyr Phe Leu Ala Val Met Ser Val Asp Arg Tyr Leu
96      130                 135                 140
97 Val Val Leu Ala Thr Val Arg Ser Arg His Met Pro Trp Arg Thr Tyr
98 145                 150                 155                 160
99 Arg Gly Ala Lys Val Ala Ser Leu Cys Val Trp Leu Gly Val Thr Val
100                 165                 170                 175
101 Leu Val Leu Pro Phe Phe Ser Phe Ala Gly Val Tyr Ser Asn Glu Leu
102              180                 185                 190
103 Gln Val Pro Ser Cys Gly Leu Ser Phe Pro Trp Pro Glu Gln Val Trp
104          195                 200                 205
105 Phe Lys Ala Ser Arg Val Tyr Thr Leu Val Leu Gly Phe Val Leu Pro
106      210                 215                 220
107 Val Cys Thr Ile Cys Val Leu Tyr Thr Asp Leu Leu Arg Arg Leu Arg
108 225                 230                 235                 240
109 Ala Val Arg Leu Arg Ser Gly Ala Lys Ala Leu Gly Lys Ala Arg Arg
110                 245                 250                 255
111 Lys Val Thr Val Leu Val Leu Val Val Leu Ala Val Cys Leu Leu Cys
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RAW SEQUENCE LISTING   DATE: 01/26/2005
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Input Set : A:\sequence listing - 61536 (46342).txt
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```
112                 260                 265                 270
113 Trp Thr Pro Phe His Leu Ala Ser Val Val Ala Leu Thr Thr Asp Leu
114         275                 280                 285
115 Pro Gln Thr Pro Leu Val Ile Ser Met Ser Tyr Val Ile Thr Ser Leu
116     290                 295                 300
117 Ser Tyr Ala Asn Ser Cys Leu Asn Pro Phe Leu Tyr Ala Phe Leu Asp
118 305                 310                 315                 320
119 Asp Asn Phe Arg Lys Asn Phe Arg Ser Ile Leu Arg Cys
120                 325                 330
122 <210> SEQ ID NO: 5
123 <211> LENGTH: 687
124 <212> TYPE: RNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Riboprobe
130 <400> SEQUENCE: 5
131 caaaagcugg agcuccaccg cgguggcggc cgcucuagcc cacuagugcc cuucagcacc     60
132 gcaauaugcu gcggaaguuc uuccggaagu ugucaucuag aaaggcguag aggaaggggu    120
133 ucaggcacga guuggcguag cugaggcugg ugaugacgua ggacauacug augaccagug    180
134 gggucugggg cagguccgug gucagggcca cgacagaggc cagguggaag ggcguccagc    240
135 agaggaggca cacggccagc acgacgagga ccaggacggu caccuuccgc cuggccuugc    300
136 cuagagccuu ggcuccagag cggagccgca cggcccgcag ccugcgcagg aggucugugu    360
137 agagcacaca gauggugcac acgggcagca cgaagcccag gaccaacgug uagacacggc    420
138 uggccuugaa ccagaccugc ucgggccacg ggaagcucag cccacagcuu gggaccugca    480
139 gcucguugcu guagacgcca gcgaaagaga agaagggcag aaccaggacc gugacgccca    540
140 gccagacaca caggcuggcg accuucgccc cccgguaggu gcgccagggc auguggcggg    600
141 accucacggu ggccagcacc accagguauc gguccacgcu caucacggcu aggaaguaga    660
142 ugcuggagaa gauguuguag uggucga                                       687
144 <210> SEQ ID NO: 6
145 <211> LENGTH: 17
146 <212> TYPE: PRT
147 <213> ORGANISM: Sus scrofa
149 <400> SEQUENCE: 6
150 Trp Tyr Lys His Thr Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala
151 1               5                   10                  15
152 Ala
154 <210> SEQ ID NO: 7
155 <211> LENGTH: 438
156 <212> TYPE: DNA
157 <213> ORGANISM: Homo sapiens
159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <222> LOCATION: 408
162 <223> OTHER INFORMATION: n is a, c, g, or t
164 <400> SEQUENCE: 7
165 gccccatgag caggccagcg gcgcggccca ccgtgtggta gcggggactc gccacgtgct     60
166 tgtaccacgc gccggagggc agcggcagca ggagcagaag cagcagcagt gccagccgcg    120
167 gccggctcgc gggagccccc cgctcccctg ggcgccacgc cagggcgctc cgtcgacgg     180
168 ccgcccggcg gggcgggcca cgaaccggct cggctggggt tgggcgcgca gtggagttgg    240
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      169 gacgcccagg taccggagcg caggaggctg gaggcgagcc gtgggtcccc tgcaggccca   300
      170 gctataaccg ctcggtggcc ccgcctcgtt ccgccccctc agtaccgctg ggctccccag   360
W--> 171 atgggggggag ggacggaggg aggagaggga accctggcag ctggcggngg acgtgggtac   420
      172 ttgagcacct cactgagt                                                  438
      174 <210> SEQ ID NO: 8
      175 <211> LENGTH: 264
      176 <212> TYPE: DNA
      177 <213> ORGANISM: Homo sapiens
      179 <400> SEQUENCE: 8
      180 gatagggtga gcgacgcagc cccatgagca ggccagcggc gcggcccacc gtgtggtagc    60
      181 ggggactcgc cacgtgcttg taccacgcgc cggagggcag cggcagcagg agcagaagca   120
      182 gcagcagtgc cagccgcggc cggctcgcgg gagccccccg ctcccctggg cgccacgcca   180
      183 gggcgctcgc gtcgacggcc gcccggcggg gcggccacg aaccggctcg gctgggtttg   240
      184 ggcgcgcagt ggagttggga cgcc                                          264
      186 <210> SEQ ID NO: 9
      187 <211> LENGTH: 424
      188 <212> TYPE: DNA
      189 <213> ORGANISM: Homo sapiens
      191 <400> SEQUENCE: 9
      192 gatagggtga gcgacgcagc cccatgagca ggccagcggc gcggcccacc gtgtggtagc    60
      193 ggggactcgc cacgtgcttg taccacgcgc cggagggcag cggcagcagg agcagaagca   120
      194 gcagcagtgc cagccgcggc cggctcgcgg gagccccccg ctcccctggg cgccacgcca   180
      195 gggcgctcgc gtcgacggcc gcccggcggg gcggccacg aaccggctcg gctgggtttg   240
      196 ggcgcgcagt ggagttggga cgcccaggta ccggagcgca ggaggctgga ggcgagccgt   300
      197 gggtcccctg caggcccagc tataaccgct cggtggcccc gcctcgttcc gcccctcag   360
      198 taccgctggg ctccccagat gggggagggg acggagggag gagagggaac cctggcagct   420
      199 ggcg                                                                424
      201 <210> SEQ ID NO: 10
      202 <211> LENGTH: 375
      203 <212> TYPE: DNA
      204 <213> ORGANISM: Homo sapiens
      206 <400> SEQUENCE: 10
      207 gcgcctcacc gtgtggtagc ggggactcgc cacgtgcttg taccacgcgc cggaggcagc    60
      208 ggcacgagga gcagaagcag cagcagtgcc agccgcggcc ggctcgcggg agccccccgc   120
      209 tcccctgggc gccacgcagg gctacagcgt cgacggccgc ccgcggggcc atcgcaaccg   180
      210 gctcggctgg gtttgggcgc gcagtggagt tgggacgccc aggtaccgga gcgcaggagg   240
      211 ctggaggcga gccgtgggtc ccctgcaggc ccagctataa ccgctcggtg gccccgcctc   300
      212 gttccgcccc ctcagtaccg ctgggctccc cagaatgggg gagggacgga gggaggagag   360
      213 ggaaccctgg cagct                                                    375
      215 <210> SEQ ID NO: 11
      216 <211> LENGTH: 260
      217 <212> TYPE: DNA
      218 <213> ORGANISM: Homo sapiens
      220 <220> FEATURE:
      221 <221> NAME/KEY: misc_feature
      222 <222> LOCATION: 2, 61, 147, 189, 213, 237, 249
      223 <223> OTHER INFORMATION: n is a, c, g, or t
      225 <400> SEQUENCE: 11
W--> 226 cnacgttctc ggggacataa accctgttct tgtcctaacc cgccaagggg ccatggactt    60
```

```
227 nagcgcgctg gcgtcgagca gagaagtacg gggccctggg ccggggctcc ggtgaaccgg   120
228 cccctgctac cgctactgct gcttctnctc ttgctacctc tgcccgccag cgcctggtac   180
229 aagcacgtng cgagccctcg ctatcacaca gtnggtcgtg cctccgggct gctcatnggg   240
230 ctgcgccgnt cgtcctacct                                              260
232 <210> SEQ ID NO: 12
233 <211> LENGTH: 24
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Primer
240 <400> SEQUENCE: 12
241 aactccactg cgcgcccaaa ccca  24
243 <210> SEQ ID NO: 13
244 <211> LENGTH: 24
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Primer
251 <400> SEQUENCE: 13
252 tctcccacag ctcctgaacc cacg  24
254 <210> SEQ ID NO: 14
255 <211> LENGTH: 375
256 <212> TYPE: DNA
257 <213> ORGANISM: Homo sapiens
259 <400> SEQUENCE: 14
260 aactccactg cgcgcccaaa cccagccgag ccggttcgtg gcccgccccg ccgggcggcc    60
261 gtcgacgcga gcgccctggc gtggcgccca ggggagcggg gggctcccgc gagccggccg   120
262 cggctggcac tgctgctgct tctgctcctg ctgccgctgc cctccggcgc gtggtacaag   180
263 cacgtggcga gtccccgcta ccacacggtg ggccgcgccg ctggcctgct catggggctg   240
264 cgtcgctcac cctatctgtg gcgccgcgcg ctgcgcgcgg ccgccgggcc cctggccagg   300
265 gacaccctct cccccgaacc cgcagcccgc gaggctcctc tcctgctgcc ctcgtgggtt   360
266 caggagctgt gggag                                                   375
268 <210> SEQ ID NO: 15
269 <211> LENGTH: 125
270 <212> TYPE: PRT
271 <213> ORGANISM: Homo sapiens
273 <400> SEQUENCE: 15
274 Asn Ser Thr Ala Arg Pro Asn Pro Ala Glu Pro Val Arg Gly Pro Pro
275 1               5                   10                  15
276 Arg Arg Ala Ala Val Asp Ala Ser Ala Leu Ala Trp Arg Pro Gly Glu
277             20                  25                  30
278 Arg Gly Ala Pro Ala Ser Arg Pro Arg Leu Ala Leu Leu Leu Leu Leu
279         35                  40                  45
280 Leu Leu Leu Pro Leu Pro Ser Gly Ala Trp Tyr Lys His Val Ala Ser
281     50                  55                  60
282 Pro Arg Tyr His Thr Val Gly Arg Ala Ala Gly Leu Leu Met Gly Leu
283 65                  70                  75                  80
284 Arg Arg Ser Pro Tyr Leu Trp Arg Arg Ala Leu Arg Ala Ala Ala Gly
285                 85                  90                  95
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/26/2005
PATENT APPLICATION: US/10/500,175A   TIME: 12:53:47

Input Set : **A:\sequence listing - 61536 (46342).txt**
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 408
Seq#:11; N Pos. 2,61,147,189,213,237,249
Seq#:95; Xaa Pos. 21
Seq#:103; Xaa Pos. 21
Seq#:104; Xaa Pos. 21
Seq#:105; Xaa Pos. 1
Seq#:106; Xaa Pos. 1
Seq#:111; Xaa Pos. 1
Seq#:112; Xaa Pos. 1
Seq#:113; Xaa Pos. 1

VERIFICATION SUMMARY   DATE: 01/26/2005
PATENT APPLICATION: **US/10/500,175A**   TIME: 12:53:47

Input Set : **A:\sequence listing - 61536 (46342).txt**
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```
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:360
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:1298 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:95
L:1305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:16
L:1386 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:103
L:1393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:16
L:1402 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:104
L:1409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:16
L:1418 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:105
L:1423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:0
L:1434 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:106
L:1439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:0
L:1490 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:111
L:1495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:0
L:1506 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:112
L:1511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:0
L:1522 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:113
L:1527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:0
```